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CENTRAL INTELLIGENCE AGENCY  
INFORMATION FROM  
FOREIGN DOCUMENTS OR RADIO BROADCASTS

## REPORT

CD NO.

COUNTRY USSR

DATE OF INFORMATION 1950

SUBJECT      Scientific - Electricity, industrial - scientific cooperation

HOW PUBLISHED Monthly periodical

DATE DIST. 21 Nov 1950

WHERE  
PUBLISHED: Moscow

NO. OF PAGES 4

DATE  
PUBLISHED Feb 1950

LANGUAGE Russian

SUPPLEMENT TO  
REPORT NO.

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SOURCE Elektrichestvo, No 2, 1950, pp 90-91.

UNITED ORGANIZATIONS IN THE MOVEMENT FOR  
COOPERATION BETWEEN SCIENTISTS AND MANUFACTURERS

A. S. Rumyantsev, Vice-Chairman  
VNITOE Administration

In discussing Professor V. M. Andreyev's speech on cooperation between industrial workers and scientists and technicians at the 7th Plenum, the Administration of VNITOE (All-Union Scientific and Technical Society of Power Engineers) proposed that members of the society should join in creative work for solving and putting on a cooperative basis many serious problems of practical importance to enterprises of the electrical industry, power systems, and electric power stations. This will ensure the successful completion of the Five-Year Plan in 4 years.

Organizations of the society are carrying out corresponding work among members of the society. Organizations and members of the society have entered into socialist obligations concerning cooperation in design-planning, construction, and installation organizations, and there have been similar arrangements between members of the society and Stakhanovite workers.

We shall give some examples.

The VNITOE department at the "Sevkabel" plant organized a cooperation team for mastering the production of wire with a new insulation composition. Its members were A. S. Zakharov, Stakhanovite worker; I. K. Mikhaylov, engineer-designer; and A. A. Kashin, engineer-technologist. Until recently, the wires of deep-water cables were insulated with a special compound which replaced the lead sheathing. This compound was expensive. A composition which was devised to replace the expensive insulating compound fully satisfies the requirements. However, its introduction was a complicated task, since a new technology had to be introduced and the equipment modernized. The difficulties were solved by the cooperation team. Cooperation agreements have been concluded at the "Sevkabel" plant for introducing the latest technological methods and solving other production problems; 25 members of the society were included in these agreements.

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The VNITOE division at LENGIDEP (Leningrad Division of State Trust for Hydroelectric Power Planning) concluded an agreement with Professor S. A. Lebedev, member of the administration of the Kiev division of VNITOE and Active Member of the Academy of Sciences UkSSR, and L. V. Tsukernik, Candidate of Technical Science, Institute of Electrical Engineering, Academy of Sciences UkSSR, for the purpose of developing and implementing the recommendations on compounding and voltage correction of synchronous generators, made at the scientific and technical session on automatics and telemechanics organized by VNITOE.

A. N. Cherepanov, P. N. Mitselovskiy, A. A. Timofeyeva, and V. V. Dimitriyevskiy, members of the society, concluded an agreement with Engineer N. V. Khil'tov and others on introducing a new type of complete distribution apparatus for hydroelectric stations.

The primary organization of LONITOE (Leningrad branch of VNITOE) attached to LKS Lenenergo published, in a local newspaper with a large circulation, articles on the types of cooperation carried out in the Leningrad cable network, indicating a number of problems which must be solved in order to improve the technical-economic indexes of the enterprise.

On the initiative of VNITOE organizations, 31 cooperation agreements were concluded between engineers and Stakhanovite network personnel of TERZ [unidentified], Physicotechnical Institute of the Academy of Sciences USSR, LIET [Leningrad Electrical Research Institute?] imeni Molotov, TsNIEI MES (Central Scientific Research Laboratory of Electrical Engineering Ministry of Electric Power Stations), NII MEP (Scientific Research Institute, Ministry of Electrical Industry), LPI (Leningrad Polytechnic Institute) imeni Kalinin, "Sevkabel" and "Elektroapparat" plants, etc.

The primary organization of the Lenenergo administration concluded three agreements on cooperation between workers of (1) the electrical laboratory of Lenenergo, (2) GES No 5 and (3) the "Elektrosila" plant.

The primary organization of Sevzanelektromontazh at the general meeting of the organization discussed the problem of cooperation between engineers and Stakhanovites. Among the speakers were A. S. Liberman, A. N. Gordeyev, K. I. Yashchuk, F. I. Uspenskiy, V. A. Vil'nits, and P. D. Korol'kov. After discussing the report and communications, the general meeting recommended subjects on which it was advisable to conclude agreements. In addition, it was decided to hold a conference of engineering and technical personnel and workers taking part in the cooperation. The decisions of the meeting were reflected in the conclusion of 27 cooperation agreements between 30 engineers and technicians and 44 workers. The agreements are being fulfilled.

The primary organization of LOTEK (Leningrad Division of State Trust for Steam-Electric Power Planning) discussed the problem of developing work on cooperation between engineers and workers of planning and plant organizations and, in conjunction with LME (Leningrad Metallurgical Plant) imeni Stalin, made plans for the typical arrangement of a machine shop. Cooperation agreements were concluded with TEP construction workers, and with members of the society organization at the "Elektroapparat" plant.

The primary VNITOE organization of the Kirov plant is assisting plant power engineers and personnel of the Chairs of Industrial Utilization of Electric Power and Steam Boilers of Leningrad Polytechnic Institute imeni Kalinin to fulfill obligations.

The VNITOE division at the "Elektroapparat" Plant directed the creative initiative of members of the society toward inventing new techniques. Among those taking part in this work are: N. I. Bachurin, V. V. Kaplan, A. I. Dobrusin, G. B. Taytsel', A. M. Zaleskiy, M. I. Kogan, K. Ye. Bulgakov, L. K. Greyner, V. V. Gurvich, I. K. Medvedskiy, I. S. Ayzenberg, P. Ya. Yanovskiy,

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and M. M. Zarkhin. The best technical solutions in the design of the GM single series of small support insulators, maximum-current relays, etc., are being sought through this collaboration.

The Odessa Division of VNITOE formed 16 teams from members of the society (each consisting of one heat engineer and one electrician), which, after familiarizing themselves with the enterprises, worked out concrete measures for collaboration between society members and workers of the enterprises investigated.

At the KhEMZ (Khar'kov Electromechanical Plant), S. Ya. Kogan, and A. P. Gorozhankin are developing a new type of explosion-proof motor with characteristics superior to the existing MA-140 series, and also a procedure for designing induction motors. I. A. Kravtsov is working out a better type of "box" ventilator for A-6, A-7, and A-8 machines. A. R. Grekov is designing a regulated ac electric drive with magnetic slip coupling.

A creative team of VNITOE members at the "ZIS" plant comprising M. I. Trekhov, M. M. Smirnov, M. A. Ferapontov, V. V. Anke, and M. S. Popov is collaborating by designing and introducing a system for automatizing the operation of painting chambers.

At the "Serp i molot" plant, the following society members, together with workers of the Chief Power Engineer's Department and the shops, are cooperating: M. N. Starovich, Candidate in Technical Sciences; I. S. Zhilin, M. M. Minskaya, Z. I. Slesarev, S. B. Chesnikov, N. P. Ikonostasov, and N. Ye. Nikodimov.

Members of the Kiev Division of VNITOE working at the Plant imeni Dimitrov have resolved, by means of creative collaboration, to introduce a high-frequency installation for heat-treating parts and drying wood, and anode-mechanical cutting and grinding of metals in many shops of the plant.

The Tartar Division of VNITOE is popularizing a new telemeasuring instrument, designed and manufactured by Yu. Tselousov.

Forty-seven members of the society at the Plant imeni Molotov have assumed obligations concerning the technological introduction of a new coercimeter (coercive force) instrument for determining hardness of steel and a new electric vacuum gauge instrument for measuring vacuum during regeneration of electric tubes, etc.

Twelve members of the society in Novosibirsk are introducing anode-mechanical cutting and electroerosion /electric-spark cutting/ equipment at enterprises in the city.

Six interrelated conferences of VNITOE divisions (Yaroslavl', Kazan', Riga, Zaporozh'ye, Tbilisi, and Sverdlovsk) were devoted to developing the collective participation of members of the society in a creative collaboration of engineers and manufacturers.

Organizations of the society are establishing contact with the technical councils (Tekhsovet) of enterprises. For example, the Tekhsovet of the Plant imeni Stalin (chairman of Tekhsovet M. N. Bushuyev, member of presidium of VNITOE) devoted a special session to discussing the work of the VNITOE plant organization. The Tekhsovet noted several problems for collaborative work. The division of the society at the Plant imeni Stalin brought up a number of important technical problems for discussion by the Tekhsovet.

Primary organizations of the society should extend liaison with the Tekhsovet of enterprises as much as possible. Joint work of Tekhsovet had scientific and technical societies is the long-range form of creative collaboration between scientific workers and industry.

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Divisions of the society must bring to light and support the valuable undertakings of production innovators, rendering them every assistance in improving efficiency, making inventive proposals, and in mastering new methods of work.

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